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... Here a systematic and principled method is introduced that analyses **microarray** expression data from thousands of genes tested in multiple tissue ... we use $K(x_i, x_j) = (x_i \cdot x_j + 1)$. In the presence of **noise**, the standard maximum margin **algorithm** described above ...

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... The stochastic nature of both population initialization and the **genetic** operators used during training can make ... To allow for **noise** in the data the tree can be pruned to allow for misclassifications in ... Decision tree learning **algorithms** are biased to select the simplest of these ...

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MPS Brown, WN Grundy, D Lin, N ... - Proceedings of the ..., 2000 - National Acad Sciences

... the different perspective provided by the expression data, which represents the **genetic** response of ... Third, genes for which the **microarray** data is corrupt may not be correctly classified. ... Occasionally, the **microarrays** contain bad probes or are damaged, and some locations in the ...

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... Much has been written on the potential use of DNA **microarrays** in studying the ... Furthermore, results will be sensitive to the clustering **algorithm** and distance measure used, as we ... With the covariate dimensions encountered in **microarray** studies, it becomes evident that very few ...

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... same way that backpropagation evaluates VED (see Bishop 1992 for a complete **algorithm** and the ... is the relationship between the evidence and the generalization error (or its close relative, **cross-validation**)? ... be devoted to the test set to get an acceptable signal-to-**noise** ratio ...

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... Smoothing was done to (i) denoise and thus enhance the signal-to-**noise** ratio and (ii) enable a multiple-test correction via the ... **Cross-validation** (22) treats $n - 1$ of n observations as a training set. ... The **genetic algorithm** was first described by John Holland in the mid-1970s (17). ...

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... High-density oligonucleotide **microarrays** containing 7129 probes for 6817 human genes were used. ... The colon data can be found at the web site <http://microarray.princeton.edu/oncology>. ... [20] Yang, J. and Honavar, V., Feature subset selection using a **genetic algorithm**, 1997. ...

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... In general, pathologists utilize a variety of microscopic, **genetic**, and immunologic techniques ... This profile does not happen since the reading of **microarray** experiments is ... sample was hybridized overnight to Affymetrix high-density oligonucleotide **microarrays** containing probes ...

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A Ben-Dor, L Bruhn, N Friedman, I ... - Journal of ..., 2000 - liebertonline.com

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